

www.FirstRanker.com

www.FirstRanker.com

Code No: 844AB

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MCA IV Semester Examinations, April/May - 2019 LINUX PROGRAMMING

Time: 3hrs Max.Marks:75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

	5 × 5 Mark	s = 25
1.a) b)	Write short notes on file name substitution and command substitution. Explain in detail about stat family.	[5] [5]
c)	Write a program to illustrate zombie process.	[5]
d)	Explain briefly about the types of Inter Process Communication.	[5]
e)	Briefly discuss about the socket options.	[5]
٠,	and a second options.	[-]
PART - B		
	5 × 10 Mark	s = 50
2.a)	Write short notes on shell responsibilities.	
b)	Write a shell script to find the factorial of a given number.	[5+5]
	OR	. ,
3.a)	Write short notes on interrupt processing in shell.	
b)	Write a shell script to list all the directories and files in the current directory.	[5+5]
		_
4.a)	Write short notes on scalar in Perl and their operations.	
b)	Explain pattern matching with an example.	[5+5]
	OR	-
5.a)	Explain the concept of kernel support for files.	
b)	Write a program to check and report file descriptors of all opened files.	[5+5]
6.a)	Explain in brief the kernel support for signals.	
b)	Write about alarm and pause functions with example.	[5+5]
OR		
7.a)	What is meant by process termination? Explain the various types of process termination?	rocess
	terminations with suitable example.	
b)	Write short notes on process attributes.	[5+5]
8.	Explain in detail about the process of reading and writing a message from an	
	message queue.	[10]
	OR	
9.a)	Explain about inter process communication using pipes.	
b)	Explain popen() and pclose() functions with suitable examples.	[5+5]
10 ->	Emploin about the compat() compan() and compat() for all compatibles	
10.a)	Explain about the semget(), semop(), and semctl() functions.	[5.1.5]
b)	Explain about the kernel support for shared memory.	[5+5]
	OR	



11.

What are Linux Sockets? Write about connection oriented and connectionless